

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P529081

Luminaire Tested: **GALN-SA4B-727-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529081  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4B-727-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12932 lumens  
Efficiency: N/A  
Efficacy: 78.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G0

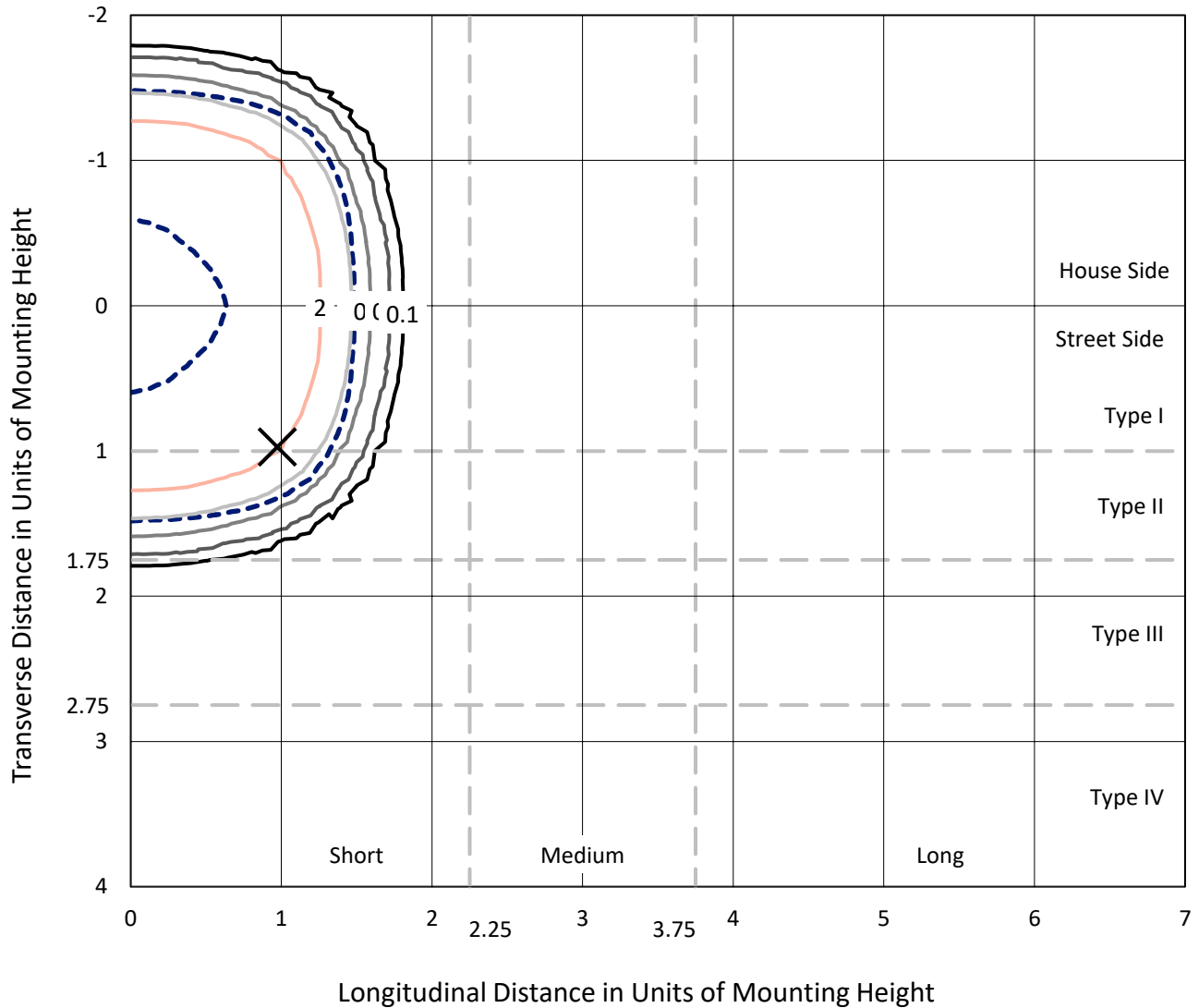
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P529081  
 CATALOG NUMBER: GALN-SA4B-727-U-5NQ-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

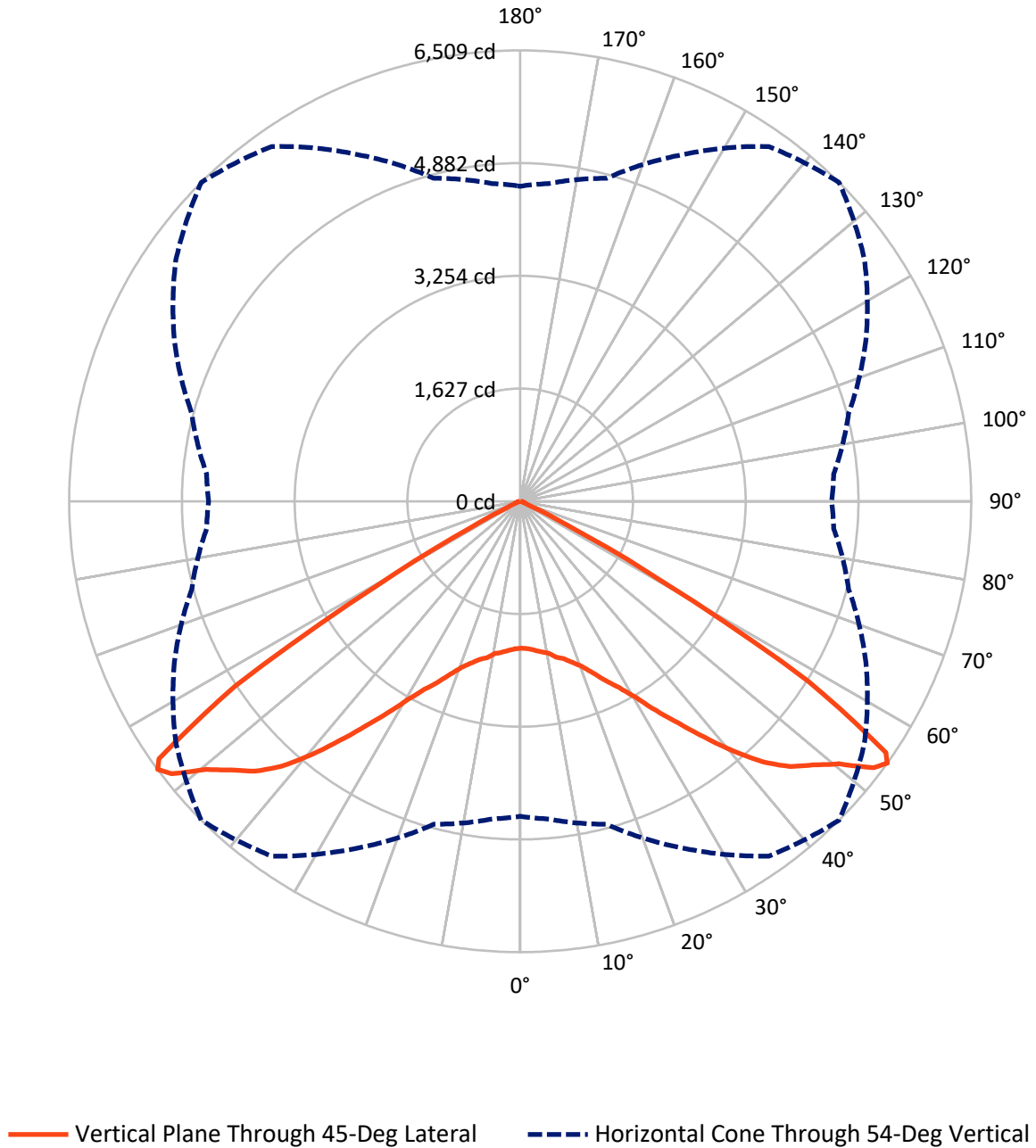
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc  
 Type V - Short - N/A

REPORT NUMBER: P529081  
CATALOG NUMBER: GALN-SA4B-727-U-5NQ-GRSBK

### Luminous Intensity Polar Plot



REPORT NUMBER: P529081  
 CATALOG NUMBER: GALN-SA4B-727-U-5NQ-GRSBK

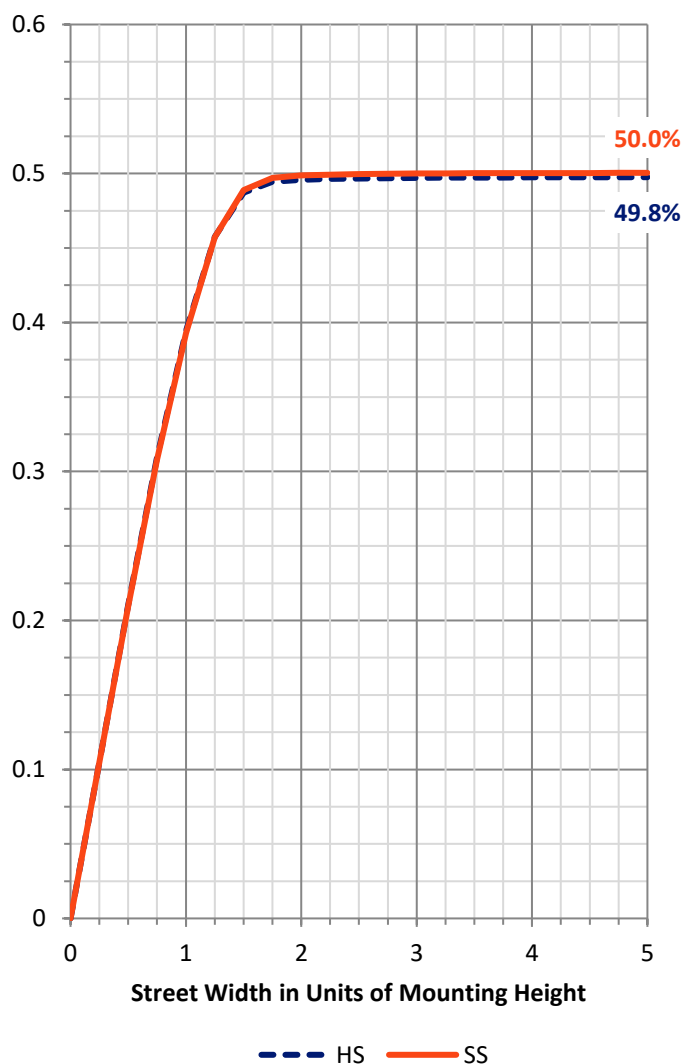
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6466.0	0.0	6466.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6466.0	0.0	6466.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	12932.0	0.0	12932.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	207.5	1.6
10°-20°	672.1	5.2
20°-30°	1317.3	10.2
30°-40°	2368.7	18.3
40°-50°	4054.8	31.4
50°-60°	3923.4	30.3
60°-70°	335.9	2.6
70°-80°	39.8	0.3
80°-90°	12.5	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	12932.0	100.0
0°-180°	12932.0	100.0

**Coefficient of Utilization**

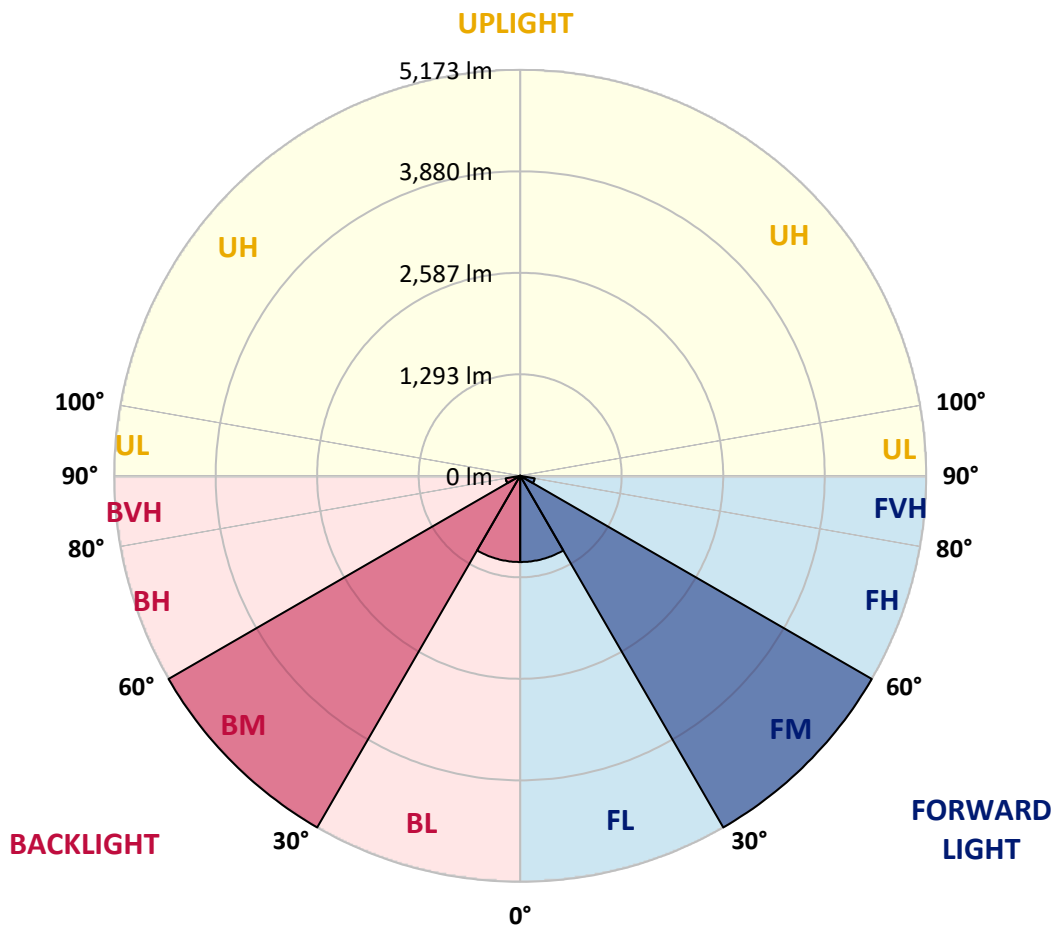


REPORT NUMBER: P529081  
 CATALOG NUMBER: GALN-SA4B-727-U-5NQ-GRSBK

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1098.5	8.5			
FM (30°-60°)	5173.5	40.0			
FH (60°-80°)	187.8	1.5			G0/660
FVH (80°-90°)	6.2	0.0			G0/10
BL (0°-30°)	1098.5	8.5	B3/2500		
BM (30°-60°)	5173.5	40.0	B4/8500		
BH (60°-80°)	187.8	1.5	B1/500		G0/660
BVH (80°-90°)	6.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G0**  
 Type V Short





REPORT NUMBER: P529081

CATALOG NUMBER: GALN-SA4B-727-U-5NQ-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2120.4	2120.4	2120.4	2120.4	2120.4	2120.4	2120.4	2120.4	2120.4	2120.4	2120.4
2.5°	2130.7	2143.0	2134.8	2140.9	2140.9	2130.7	2136.8	2112.3	2128.6	2116.3	2118.4
5°	2163.5	2161.4	2161.4	2163.5	2155.3	2159.4	2151.2	2143.0	2136.8	2128.6	2153.2
7.5°	2204.4	2204.4	2190.1	2194.2	2190.1	2196.2	2179.9	2163.5	2157.3	2151.2	2147.1
10°	2243.4	2239.3	2233.1	2251.6	2237.2	2229.0	2220.8	2210.6	2188.1	2179.9	2171.7
12.5°	2300.7	2298.7	2290.5	2308.9	2300.7	2308.9	2278.2	2251.6	2247.5	2220.8	2235.2
15°	2368.3	2386.8	2372.4	2372.4	2368.3	2358.1	2345.8	2333.5	2296.6	2286.4	2288.4
17.5°	2456.4	2450.3	2452.3	2452.3	2472.8	2446.2	2421.6	2390.9	2372.4	2366.3	2345.8
20°	2540.4	2548.6	2546.6	2560.9	2573.2	2544.5	2517.9	2513.8	2462.6	2470.8	2442.1
22.5°	2687.9	2681.8	2692.0	2702.3	2694.1	2690.0	2665.4	2634.7	2589.6	2569.1	2565.0
25°	2843.7	2833.4	2815.0	2839.6	2851.8	2870.3	2823.2	2806.8	2737.1	2706.4	2708.4
27.5°	2976.8	2991.2	3011.6	3021.9	3052.6	3046.5	3013.7	2960.4	2907.2	2872.3	2849.8
30°	3159.2	3167.4	3202.2	3216.5	3269.8	3284.1	3232.9	3171.4	3077.2	3032.1	3005.5
32.5°	3327.2	3384.5	3382.5	3454.2	3540.2	3599.6	3507.4	3413.2	3319.0	3265.7	3218.6
35°	3599.6	3589.4	3648.8	3724.6	3863.9	3931.5	3831.1	3722.6	3579.1	3493.1	3456.2
37.5°	3853.7	3857.8	3937.7	4058.6	4218.4	4322.8	4234.7	4056.5	3909.0	3798.4	3747.1
40°	4222.5	4230.6	4312.6	4449.9	4630.2	4742.8	4640.4	4460.1	4263.4	4177.4	4177.4
42.5°	4654.7	4689.6	4742.8	4861.7	5023.5	5148.5	5056.3	4914.9	4716.2	4605.6	4622.0
45°	5099.3	5115.7	5150.5	5326.7	5402.5	5464.0	5377.9	5312.4	5179.2	5044.0	5021.5
47.5°	5515.2	5521.4	5623.8	5679.1	5738.5	5687.3	5742.6	5656.6	5507.0	5375.9	5349.3
50°	5699.6	5689.3	5834.8	6002.8	6047.9	5957.7	5910.6	5853.2	5625.8	5468.1	5398.4
52.5°	5162.8	5222.2	5492.7	5959.8	6312.2	6388.0	6113.4	5849.2	5425.1	5117.8	5070.6
54°	4548.2	4603.5	4826.8	5519.3	6252.8	6508.8	6066.3	5505.0	4906.7	4542.1	4494.9
55°	3939.7	3878.3	4283.9	4990.7	5974.1	6402.3	5879.9	5060.4	4376.1	4042.2	3976.6
57.5°	2132.7	2143.0	2485.1	3153.0	4197.9	4908.8	4335.1	3423.4	2585.5	2210.6	2177.8
60°	676.1	692.5	842.0	1274.3	2005.7	2395.0	2052.8	1374.7	950.6	762.1	731.4
62.5°	211.0	219.2	239.7	356.5	549.1	784.7	614.6	368.8	274.5	252.0	256.1
65°	129.1	129.1	131.1	139.3	163.9	190.5	184.4	161.9	155.7	151.6	149.6
67.5°	84.0	81.9	86.0	92.2	96.3	98.3	104.5	110.6	108.6	104.5	104.5
70°	51.2	49.2	53.3	61.5	63.5	67.6	73.8	81.9	79.9	75.8	77.9
72.5°	28.7	28.7	30.7	36.9	43.0	47.1	53.3	59.4	61.5	59.4	59.4
75°	10.2	12.3	16.4	22.5	26.6	32.8	38.9	45.1	51.2	47.1	45.1
77.5°	4.1	4.1	8.2	14.3	20.5	26.6	36.9	43.0	47.1	43.0	38.9
80°	2.0	2.0	6.1	12.3	18.4	24.6	30.7	36.9	38.9	34.8	30.7
82.5°	2.0	2.0	6.1	12.3	18.4	22.5	32.8	36.9	41.0	36.9	30.7
85°	0.0	2.0	6.1	12.3	16.4	18.4	18.4	12.3	10.2	6.1	6.1
87.5°	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)